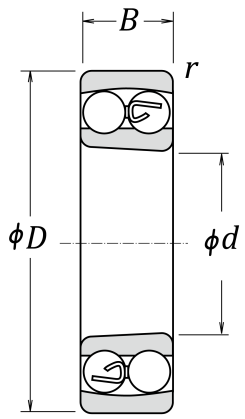
PRODUCT DATASHEET

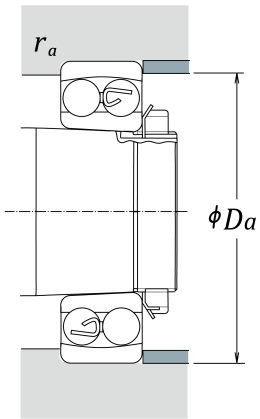
Datasheet creation date: 2025/05/28 10:40 (UTC)

MOTION & CONTROL NSK

2309K

Self-Aligning Ball Bearings





Boundary Dimensions

d	45	mm	Bore diameter
D	100	mm	Outside diameter
B	36	mm	Width
r (min.)	1.5	mm	Chamfer dimension

Basic Load Ratings

Cr	60500	N	Basic dynamic load rating
C0r	16700	N	Basic static load rating

Speeds

Grease	5600	min-1	Grease lubrication
Oil (Oil-bath)	7100	min-1	Oil-bath lubrication

Abutment and Fillet Dimensions

da (min.)	53	mm	Diameter of shaft abutment
Da (max.)	92	mm	Diameter of housing abutment
ra (max.)	1.5	mm	Radius of shaft or housing fillet

Calculation factors

e	0.41		Constant
Y2	2.4		Axial load Factors
Y3	1.5		Axial load Factors
Y0	1.6		Axial load Factors

Mass

Mass approx.	1.2	kg	Mass approx.

Associated products

Adapter	H2309X		Adapter

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